



The next generation of white light.

MasterColor CDM-T Elite Med Wattage

The Philips MasterColor Elite MW system offers an unrivalled level of light quality and performance. The lamp's sparkling white light creates a natural ambience and really brings out the best in all different types of colors. In addition, the high efficiency of the lamp and ballast together means reduced energy use and a lower cost of ownership compared to a 400W Metal Halide HID system

Benefits

- Excellent color rendering of 90+ CRI
- Philips "Green Flagship Product" - Low mercury, no lead
- New socket design provides higher optical efficiency

Features

- Significant upgrade opportunity over traditional HID systems.
- Viable alternative to fluorescent options.
- Excellent color quality and consistent light output from beginning to end.
- Being 50% smaller than traditional metal halide lamps, MasterColor CDM Elite MW gives freedom in optic and luminaire design.
- Sparkling properties of white light create a more natural and inviting ambience.
- 210 & 315 Watt, 3000 & 4200 color versions. Each powered by an Advance e-Vision electronic ballast.

Application

- Ideal for architectural facade lighting, illumination of pedestrian areas, indoor retail outlets, warehouses, manufacturing facilities

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Warnings and Safety

- R "WARNING: These lamps can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available." This lamp complies with FDA radiation performance standard 21 CFR subchapter J. (USA:21 CFR 1040.30 Canada: SOR/DORS/80-381)

Versions

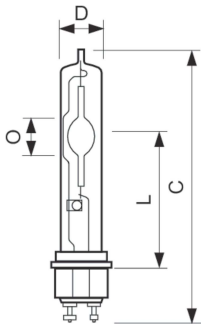


PGZX18., T12, Clear, Protected



PGZ18, T9 (TMW28), Clear

Dimensional drawing



Product	D	D	C		
CDM T12 ELITE 210W/942/U/O EU	1.5 in	38 mm	193 mm		
CDM-T Elite 315W/942 PGZ18.1CT/12	29 mm	1.1 in	28 mm	188	186
				mm	mm
CDM-T Elite 315W/930 PGZ18.1CT/12	29 mm	1.1 in	28 mm	188	186
				mm	mm
CDM ELITE TMW 315/930/U/O EU	1.5 in	38 mm	193 mm		
CDM-T Elite 210W/930 PGZ18.1CT/12	29 mm	1.1 in	28 mm	188	186
				mm	mm
CDM-TP MW 210W/930 PGZX18.1CT/12	1.5 in	38 mm	193 mm		
CDM Elite TMW 315/942/U/O EU	1.5 in	38 mm	193 mm		
CDM T12 ELITE 315W/942/U/O GAV	1.5 in	38 mm	193 mm		

Operating and Electrical

Re-ignition Time (Min) (Max) 10 min

General Information

Life To 50% Failures (Nom) 30000 h

Operating Position UNIVERSAL

Mechanical and Housing

Bulb Finish Clear

Approval and Application

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Order Code	Full Product Name	Energy	Mercury	Picogram Per Lumen Hour
		Consumption kWh/1000 h	(Hg) Content (Max)	
928493300031	CDM T12 ELITE 315W/942/U/O GAV	347 kWh	25 mg	39.0 pg/lm.h
928601167031	CDM-TP MW 210W/930 PGZX18.1CT/12	210 kWh	23.7 mg	53 pg/lm.h
928601167131	CDM ELITE TMW 315/930/U/O EU	316 kWh	28 mg	44.4 pg/lm.h
928601167231	CDM T12 ELITE 210W/942/U/O EU	231 kWh	25 mg	60.7 pg/lm.h

Order Code	Full Product Name	Energy	Mercury	Picogram Per Lumen Hour
		Consumption kWh/1000 h	(Hg) Content (Max)	
928601167331	CDM Elite TMW 315/942/U/O EU	316 kWh	25 mg	39.0 pg/lm.h
928601164631	CDM-T Elite 315W/930 PGZ18.1CT/12	316 kWh	28 mg	27.1 pg/lm.h
928601164731	CDM-T Elite 210W/930 PGZ18.1CT/12	210 kWh	24 mg	40.4 pg/lm.h
928601164831	CDM-T Elite 315W/942 PGZ18.1CT/12	316 kWh	25 mg	25 pg/lm.h

Controls and Dimming

Order Code	Full Product Name	Dimmable
928493300031	CDM T12 ELITE 315W/942/U/O GAV	-
928601167031	CDM-TP MW 210W/930 PGZX18.1CT/12	No
928601167131	CDM ELITE TMW 315/930/U/O EU	No
928601167231	CDM T12 ELITE 210W/942/U/O EU	-

Order Code	Full Product Name	Dimmable
928601167331	CDM Elite TMW 315/942/U/O EU	No
928601164631	CDM-T Elite 315W/930 PGZ18.1CT/12	No
928601164731	CDM-T Elite 210W/930 PGZ18.1CT/12	No
928601164831	CDM-T Elite 315W/942 PGZ18.1CT/12	No

Operating and Electrical

Order Code	Full Product Name	Voltage	Voltage	Voltage	Power
		(Max)	(Min)	(Nom)	(Rated) (Nom)
928493300031	CDM T12 ELITE 315W/942/U/O GAV	115 V	90 V	100 V	315.9 W
928601167031	CDM-TP MW 210W/930 PGZX18.1CT/12	115 V	90 V	100 V	210.0 W
928601167131	CDM ELITE TMW 315/930/U/O EU	115 V	90 V	100 V	315.9 W
928601167231	CDM T12 ELITE 210W/942/U/O EU	120 V	90 V	105 V	210.0 W
928601167331	CDM Elite TMW 315/942/U/O EU	115 V	90 V	100 V	315.9 W

Order Code	Full Product Name	Voltage	Voltage	Voltage	Power
		(Max)	(Min)	(Nom)	(Rated) (Nom)
928601164631	CDM-T Elite 315W/930 PGZ18.1CT/12	115 V	90 V	100 V	315.9 W
928601164731	CDM-T Elite 210W/930 PGZ18.1CT/12	115 V	90 V	100 V	210.0 W
928601164831	CDM-T Elite 315W/942 PGZ18.1CT/12	115 V	85 V	100 V	315.9 W

General Information

Order Code	Full Product Name	Cap-Base	Life To		Main Application
			10% Failures (Nom)	Life To 5% Failures (Nom)	
928493300031	CDM T12 ELITE 315W/942/U/O GAV	PGZX18.	12000 h	10000 h	-
928601167031	CDM-TP MW 210W/930 PGZX18.1CT/12	PGZX18.	12000 h	10000 h	-
928601167131	CDM ELITE TMW 315/930/U/O EU	PGZX18.	12000 h	10000 h	-

Order Code	Full Product Name	Cap-Base	Life To		Main Application
			10% Failures (Nom)	Life To 5% Failures (Nom)	
928601167231	CDM T12 ELITE 210W/942/U/O EU	PGZX18.	12000 h	10000 h	-
928601167331	CDM Elite TMW 315/942/U/O EU	PGZX18.	12000 h	10000 h	-
928601164631	CDM-T Elite 315W/930 PGZ18.1CT/12	PGZ18	16000 h	12500 h	-

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Order Code	Full Product Name	Cap-Base	Life To		
			10% Failures (Nom)	Life To 5% Failures (Nom)	Main Application
928601164731	CDM-T Elite 210W/930 PGZ18.1CT/12	PGZ18	16000 h	12500 h	-

Order Code	Full Product Name	Cap-Base	Life To		
			10% Failures (Nom)	Life To 5% Failures (Nom)	Main Application
928601164831	CDM-T Elite 315W/942 PGZ18.1CT/12	PGZ18	16000 h	12500 h	-

Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
928493300031	CDM T12 ELITE 315W/942/U/O GAV	350 °C
928601167031	CDM-TP MW 210W/930 PGZX18.1CT/12	550 °C
928601167131	CDM ELITE TMW 315/930/U/O EU	550 °C
928601167231	CDM T12 ELITE 210W/942/U/O EU	550 °C

Order Code	Full Product Name	Bulb Temperature (Max)
928601167331	CDM Elite TMW 315/942/U/O EU	550 °C
928601164631	CDM-T Elite 315W/930 PGZ18.1CT/12	700 °C
928601164731	CDM-T Elite 210W/930 PGZ18.1CT/12	600 °C
928601164831	CDM-T Elite 315W/942 PGZ18.1CT/12	700 °C

Light Technical (1/3)

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Color Code	Color Designation	Correlated Color Temperature		Correlated Color Temperature (Nom)
						(Max)	(Min)	
928493300031	CDM T12 ELITE 315W/942/U/O GAV	0.373	0.371	942	Cool White (CW)	4400 K	4000 K	4200 K
928601167031	CDM-TP MW 210W/930 PGZX18.1CT/12	0.434	0.398	930	Warm White (WW)	-	-	3000 K
928601167131	CDM ELITE TMW 315/930/U/O EU	0.434	0.398	930	Warm White (WW)	-	-	3000 K
928601167231	CDM T12 ELITE 210W/942/U/O EU	0.381	0.374	942	Cool White (CW)	- K	- K	3960 K
928601167331	CDM Elite TMW 315/942/U/O EU	0.371	0.366	942	Cool White (CW)	-	-	4200 K
928601164631	CDM-T Elite 315W/930 PGZ18.1CT/12	0.434	0.398	930	Warm White (WW)	-	-	3000 K
928601164731	CDM-T Elite 210W/930 PGZ18.1CT/12	0.434	0.398	930	Warm White (WW)	-	-	3000 K
928601164831	CDM-T Elite 315W/942 PGZ18.1CT/12	0.371	0.366	942	Cool White (CW)	-	-	4200 K

Light Technical (2/3)

Order Code	Full Product Name	Color								
		Color Rendering Index (Min)	Color Rendering Index (Nom)	Lumen Maintenance 10000 h (Nom)	Lumen Maintenance 10% Life	Lumen Maintenance 12000 h (Nom)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 20000 h	Lumen Maintenance 40% Life	Lumen Maintenance 5000 h (Nom)
928493300031	CDM T12 ELITE 315W/942/U/O GAV	87	90	93 %	97 %	91 %	97 %	80 %	95 %	96 %
928601167031	CDM-TP MW 210W/930 PGZX18.1CT/12	87	90	84 %	98 %	78 %	98 %	-	88 %	91 %
928601167131	CDM ELITE TMW 315/930/U/O EU	87	90	87 %	98 %	83 %	98 %	80 %	87 %	89 %
928601167231	CDM T12 ELITE 210W/942/U/O EU	89	92	91 %	98 %	91 %	98 %	80 %	92 %	93 %

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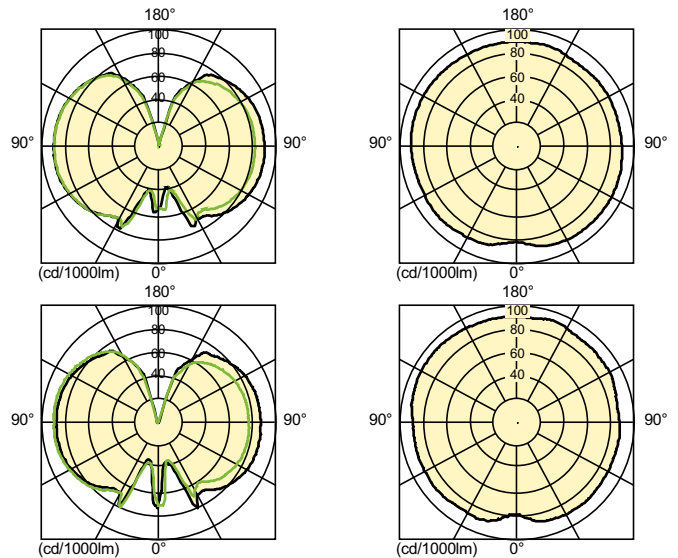
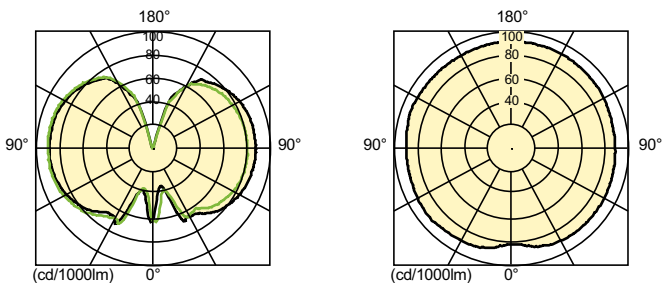
Order Code	Full Product Name	Color								
		Color Rendering Index (Min)	Color Rendering Index (Nom)	Lumen Maintenance 10000 h (Nom)	Lumen Maintenance 10% Life	Lumen Maintenance 20000 h (Nom)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 20000 h	Lumen Maintenance 40% Life	Lumen Maintenance 5000 h (Nom)
928601167331	CDM Elite TMW 315/942/U/O EU	87	93	93 %	97 %	91 %	97 %	80 %	95 %	96 %
928601164631	CDM-T Elite 315W/930 PGZ18.1CT/12	87	90	90 %	96 %	89 %	99 %	80 %	89 %	96 %
928601164731	CDM-T Elite 210W/930 PGZ18.1CT/12	87	90	91 %	96 %	90 %	98 %	81 %	90 %	93 %
928601164831	CDM-T Elite 315W/942 PGZ18.1CT/12	90	93	86 %	96 %	82 %	98 %	81 %	82 %	94 %

Light Technical (3/3)

Order Code	Full Product Name	Luminous Efficacy (rated) (Min)	Luminous Efficacy (rated) (Nom)	Design Mean Lumens	Luminous Flux (Nom)	Luminous Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
928493300031	CDM T12 ELITE 315W/942/U/O GAV	99 lm/W	109 lm/W	28050 lm	-	31200 lm	34300 lm
928601167031	CDM-TP MW 210W/930 PGZ18.1CT/12	101 lm/W	111 lm/W	21600 lm	23300 lm	21200 lm	23300 lm
928601167131	CDM ELITE TMW 315/930/U/O EU	105 lm/W	115 lm/W	31500 lm	36200 lm	33100 lm	36200 lm
928601167231	CDM T12 ELITE 210W/942/U/O EU	98 lm/W	108 lm/W	20500 lm	-	20600 lm	22800 lm
928601167331	CDM Elite TMW 315/942/U/O EU	99 lm/W	109 lm/W	30780 lm	34300 lm	31200 lm	34300 lm
928601164631	CDM-T Elite 315W/930 PGZ18.1CT/12	112 lm/W	120 lm/W	33700 lm	38000 lm	35280 lm	38000 lm
928601164731	CDM-T Elite 210W/930 PGZ18.1CT/12	105 lm/W	114 lm/W	21600 lm	24000 lm	22050 lm	24000 lm
928601164831	CDM-T Elite 315W/942 PGZ18.1CT/12	105 lm/W	112 lm/W	31150 lm	35500 lm	33100 lm	35500 lm

Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
928493300031	CDM T12 ELITE 315W/942/U/O GAV	T12
928601167031	CDM-TP MW 210W/930 PGZ18.1CT/12	T12
928601167131	CDM ELITE TMW 315/930/U/O EU	T12
928601167231	CDM T12 ELITE 210W/942/U/O EU	T12
928601167331	CDM Elite TMW 315/942/U/O EU	T12
928601164631	CDM-T Elite 315W/930 PGZ18.1CT/12	TMW28
928601164731	CDM-T Elite 210W/930 PGZ18.1CT/12	TMW28
928601164831	CDM-T Elite 315W/942 PGZ18.1CT/12	TMW28



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